

# Notice of Allowability

Application No.

10/689,668

Examiner

Nimesh G. Patel

Applicant(s)

HIGUCHI ET AL.

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed November 30 2006.
2. ☒ The allowed claim(s) is/are 1-7,9 and 10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

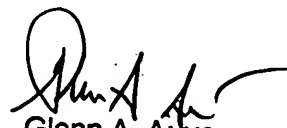
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Glenn A. Auve  
Primary Patent Examiner  
Technology Center 2100

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ellen Marcie Emas on February 16, 2007.

The application has been amended as follows:

Replace claim 1 with:

A data transfer control apparatus comprising:

a bus master;

a bus interface connected to said bus master via a master bus;

a plurality of bus slaves connected to said bus interface via a slave bus;

a transfer bus which connects a first bus slave and a plurality of second bus slaves in said plurality of bus slaves, wherein said first bus slave is constituted by an external device control section for controlling an external device connected outside;

a selection section which outputs a select signal for selecting one of said plurality of second bus slaves;

a transfer instruction section which outputs a transfer instruction signal for instructing whether or not to execute data transfer via said transfer bus;

a transfer control section which controls data transfer via said transfer bus between said second bus slave selected by said select signal and said first bus slave in response to a control

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signal output to said slave bus when an instruction is given by said transfer instruction signal;  
and

a second bus interface connected to a second bus master via a second master bus,  
wherein said second bus master executes data transfer between one of said plurality of second  
bus slaves via said second bus interface concurrently with data transfer which is carried out via  
said transfer bus between said second bus slave selected by said select signal and said  
external device via said external device control section under control of said transfer control  
section.

Replace claim 5 with:

The data transfer control apparatus according to claim 4, wherein said transfer control  
section controls data transfer via said transfer bus between said second bus slave selected by  
said select signal and said external device via said external device control section in response  
to a control signal output to said slave bus and information which is output from said external  
device control section and defines said external device, when said transfer instruction signal  
instructs execution of data transfer via said transfer bus.

Any inquiry concerning this communication or earlier communications from the examiner  
should be directed to Nimesh G. Patel whose telephone number is 571-272-3640. The  
examiner can normally be reached on M-F, 8:30-6:00.

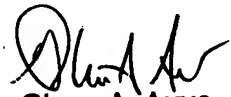
If attempts to reach the examiner by telephone are unsuccessful, the examiner's  
supervisor, Rinehart H. Mark can be reached on 571-272-3632. The fax phone number for the  
organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nimesh G Patel  
Examiner  
Art Unit 2111

NP  
February 16, 2007

  
Glenn A. Auve  
Primary Patent Examiner  
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